

4277

Diag. Cht. No. 5530-4

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
State: <u>California</u>	
11-5513	
DESCRIPTIVE REPORT.	
Hyd.	Sheet No. <u>4277</u>
LOCALITY:	
<u>San Pablo Bay</u>	
<u>Gallinas and Novato Creeks</u>	
19 <u>11</u> ²²	
CHIEF OF PARTY:	
<u>O. W. Swainson</u>	

4277

4277

Statistics to accompany Hydrographic Sheet E.

Date 1922	Letter	Vol	Pos	Sound	Miles	Vessel
Dec. 9	a	1	86	598	10	M.S.
Mar. 8	b	1	47	275	6	
			133	873	16	

Unit of Soundings	ft.	
Plane of Reference		M L L W
Tide gauge at	a	McNear's Ldg.
	b	Black Pt.
Plane of Reference on gauge		
Lowest tide "	"	"
Highest " "	"	"

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

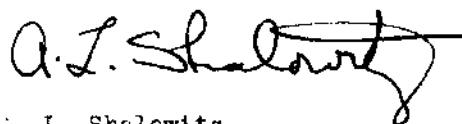
September 25, 1923.

VERIFICATION OF H. 4277.

The records for this sheet were well kept. The plotting which was done in the office was very good. In the plotting of the work in Gallinas Creek the boat sheet was used to a very great extent on account of the difficulty of obtaining three point fixes by the field party. The method employed here being to run a line close to each shore and another down the center of the creek.

In many places in the two creeks zero and minus soundings are shown blocking the channel at low water. The probabilities are that there is some water in the creeks even at the lowest stage of the tide. The field party should have made some note in the records to that effect if that is the case. A good method of surveying creeks of this sort would be to use a flat bottom boat and do the surveying as close to low water as possible. Then the low water channel could be easily followed if any water ^{exists} at all.

The sound records failed to note any bottom characteristics.



A. L. Shalowitz,
Cartographer, Field Records Section.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

September 26, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4277

Gallinas and Novato Creeks, California

Surveyed in 1921 and 1922

Instructions dated June 1 and Sept. 1, 1921

Chief of Party, O. W. Swainson.

Surveyed by M. E. Levy and M. O. Witherbee.

Protracted and soundings plotted by G. Risegari.

Verified and inked by A. L. Shalowitz.

1. The sounding records are well kept, but are subject to the criticism that no bottom characteristics are given and the locations of sounding lines are not sufficiently described in b day. In a survey of this character, where 3-point fixes cannot be obtained, the description of the lines should be very complete. No descriptive report nor title sheet were submitted.
2. The plan and character of development fulfill the requirements of the General instructions and satisfy the specific instructions.
3. The sounding line crossings are adequate.
4. The development is not sufficient to enable the low water line to be drawn. This is the significant curve in these two creeks.

In many places zero and minus soundings close the low water curve. As only 1 3/4 hour was spent on the survey of one of the creeks and 3 hours on that of the other one, it would have been possible to obtain a more correct delineation of the channel by making the survey in a shallow draft boat at approximate low water.

5. The junctions with adjacent sheets are satisfactory.
6. All the plotting usually done in the field was done in the office.
7. No additional surveying is required within the limits of the sheet.
8. The character of the surveying is fair.
9. Reviewed by E. P. Ellis, September, 1923.

COPY TO FIELD RECORDS

June 12, 1923.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 4277

Locality: San Pablo Bay, Calif.

Chief of Party: O. W. Swainson in 1921-22.

Plane of reference is mean lower low water, reading
3.8 ft. on tide staff at McNear's Landing
5.3 " " " " " Black Point

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

G. T. Rude

Chief, Division of Tides and Currents.